

In the Claims:

Please cancel claim 37 without prejudice. The status of all claims is as follows:

1. (Previously Presented) An optically addressable display comprising:

a projection device including,

a mechanism to create emissions having plural polarizations, wherein the number of polarizations defines a corresponding number of color channels; and

a data encoder to apply data for each of the color channels to the emissions having corresponding ones of the plural polarizations; and

a screen including,

a plurality of pixels for producing a color display; and

a plurality of receptors including at least one receptor for each of said plurality of pixels responsive to a corresponding polarization state for each of the color channels, said plurality of receptors activating said pixels using a corresponding color channel depending upon which, if any, of the emissions having a corresponding polarization state for said corresponding color channel is received.

2. (Previously Presented) The display according to claim 1, wherein said data encoder receives said emissions having plural polarizations

simultaneously and applies data simultaneously for each of the multiple color channels.

3. (Previously Presented) The display according to claim 1, wherein the mechanism to create emissions further comprises:

a source producing visible or non-visible spectrum emission; and
a polarization filter to sequentially polarize said visible or non-visible emissions to produce said emissions; wherein said data encoder sequentially applies data for the multiple color channels on a channel-by-channel basis to the sequentially polarized emissions.

4. (Original) The display according to claim 3, wherein said polarization filter is a multi-segment filter, each segment corresponding to a different one of multiple polarization phases.

5. (Previously Presented) The display according to claim 4, wherein said multi-segment filter comprises a rotating filter disposed in the path of said emissions to sequentially polarize said emissions through the segments of the multi-segment filter having the multiple polarization phases.

6. (Original) The display according to claim 3, wherein said polarization filter is a rotating linear filter that sequentially polarizes said emissions through multiple polarization phase peaks.

7. (Previously Presented) The display according to claim 6, wherein each pixel comprises a multi-physical element pixel for displaying multiple colors, and wherein different ones of said multiple colors are encoded within bands near different ones of said multiple polarization phase peaks.

8. (Original) The display according to claim 3, wherein said polarization filter comprises a circular polarization filter.

9. (Original) The display according to claim 3, wherein said data encoder comprises an array of light masks each corresponding to one or more of said receptors, each of said light masks selectively blocking or permitting said emissions to pass to a corresponding one or more of said receptors based upon the data.

10. (Original) The display according to claim 3, wherein said data encoder comprises an array of digital light processing mirrors, each corresponding to one or more of said receptors, each of said digital light processing mirrors selectively reflecting said emissions away from or toward a corresponding one or more of said receptors based upon the data.

11. (Original) The display according to claim 10, wherein said sequentially polarized emissions comprises a single beam of emissions having a diameter that completely encompasses said array of digital light processing mirrors.

12. (Original) The display according to claim 11, comprising a separate mirror for each of said pixels and a corresponding one of said receptors.

13. (Previously Presented) The display according to claim 12, wherein

each pixel has one of multiple colors;

said polarization filter sequentially polarizes said emissions into one of multiple polarization states, a separate polarization state corresponding to each of the multiple colors; and

each receptor is responsive to only one of said multiple separate polarization states.

14. (Original) The display according to claim 13, wherein, each of said digital light processing mirrors is positioned to reflect light away from its corresponding receptor in response to a data indicating that its corresponding pixel should be off.

15. (Original) The display according to claim 14, wherein said polarization filter is a rotating linear filter that sequentially polarizes said emissions through multiple polarization phase peaks.

16. (Previously Presented) The display according to claim 15, wherein each of said receptors is responsive to the emissions polarized with respect to bands near different ones of said multiple polarization phase peaks.

17. (Original) The display according to claim 15, further comprising a light absorber to absorb light reflected away from said receptors.

18. (Original) The display according to claim 13, further comprising an integrating rod to provide uniformity to the emissions produced by said source.

19. (Original) The display according to claim 3, further comprising a projecting lens after said data encoder to project said sequentially polarized emissions toward said plurality of receptors.

20. (Previously Presented) The display according to claim 1, each of said plurality of pixels including multiple corresponding receptors, each of said multiples corresponding receptors responding to a different polarization state of said emissions having plural polarizations, each of said plurality of pixels producing one of multiple colors as a display.

21. (Original) The display according to claim 1, wherein each of said plurality of pixels comprises a plurality of light emitting diodes.

22. (Original) The display according to claim 21, wherein each of said pixels includes light emitting diodes of at least three different colors.

23. (Original) The display according to claim 1, wherein said data encoder comprises an LCD shutter device.

24. (Previously Presented) The display according to claim 23, wherein said LCD shutter device receives said emissions having plural polarizations simultaneously and applies data simultaneously for all of the color channels on a pixel-by-pixel basis.

25. (Previously Presented) A method of encoding color data to activate an optically addressable display including a plurality of pixels, the method comprising the steps of:

at a projection device:

producing emissions having different polarizations;

for each pixel, applying data to each of said emissions having different polarizations by selectively passing said emissions having different polarizations to said pixels;

at the optically addressable display:

at each pixel,

responding to each of said emissions having different polarizations with a corresponding receptor; and

producing a different display for each of said emissions having different polarizations when responded to by the corresponding receptor.

26. (Previously Presented) The method of encoding according to claim 25, wherein said step of producing comprises:

generating an emission in a visible or non-visible spectrum; and
alternating a polarization of said emission.

27. (Original) The method of encoding according to claim 26, wherein said generating step comprises generating a laser emission.

28. (Original) The method of encoding according to claim 26, wherein said alternating step comprises filtering said emission.

29. (Original) The method of encoding according to claim 26, wherein said alternating step comprises filtering said emission through one of a multi-segment and linear filter.

30. (Previously Presented) The method of encoding according to claim 29, wherein said alternating step comprises alternating the polarization between one of multiple different phases.

31. (Previously Presented) A method of encoding color data to activate an optically addressable display including a plurality of pixels, the method comprising the steps of:

at a projection device:

producing emissions having different polarizations;

for each pixel, applying data to each of said emissions having different polarizations by selectively passing said emissions having different polarizations to said pixels;

at the optically addressable display:

at each pixel, producing a different display for each of said emissions having different polarizations when received wherein said step of applying data comprises selectively shuttering said emissions having different polarizations.

32. (Previously Presented) A method of encoding color data to activate an optically addressable display including a plurality of pixels, the method comprising the steps of:

at a projection device:

producing emissions having different polarizations;

for each pixel, applying data to each of said emissions having different polarizations by selectively passing said emissions having different polarizations to said pixels;

at the optically addressable display:

at each pixel, producing a different display for each of said emissions having different polarizations when received wherein said step of applying data comprises selectively reflecting said emissions having different polarizations toward or away from a corresponding pixel.

33. (Previously Presented) A method of encoding color data to activate an optically addressable display including a plurality of pixels, the method comprising the steps of:

at a projection device:

producing emissions having different polarizations;

for each pixel, applying data to each of said emissions having different polarizations by selectively passing said emissions having different polarizations to said pixels;

at the optically addressable display:

at each pixel, producing a different display for each of said emissions having different polarizations when received wherein said step of applying data applies data to the emissions having different polarizations simultaneously.

34. (Previously Presented) The method of encoding according to claim 25, wherein said step of applying data applies data to the emissions having different polarizations sequentially.

35. (Previously Presented) A method of encoding color data to activate an optically addressable display, the method comprising the steps of:

at a projection device:

defining multiple color channels with emissions having different polarizations; and

applying data, on a pixel-by-pixel and channel-by-channel basis to said emissions by permitting emissions to reach a pixel in the optically addressable display indicated to be on by the data; and

at the optically addressed display:

filtering to make each set of commonly colored display elements responsive to a different polarization state than other sets of commonly colored display elements.

36. (Previously Presented) An optically addressable display comprising:

a projection device including,

means for directing emissions having plural polarization states toward an array of pixels; and

means for selectively passing emissions of each of the plural polarization states according to applied data; and

a screen, including,

at each pixel,

receptor means responsive to each of the plural polarization states; and

means for actively producing plural color displays, on for each of the plural polarization states.

37. (Cancelled)